ELSEVIER

Surface Science 313 (1994) 459–463

surface science

Author index

Aiyer, H.N., V. Vijayakrishnan, G.N. Subbanna and C.N.R. Rao, Investigations of Pd clusters by the combined use of HREM, STM, high-energy spectroscopies and tunneling conductance measurements	313 (1994)	392
Asakura, K., see Lauterbach	313 (1994)	52
Atrei, A., see Galeotti	313 (1994)	349
Aufray, B., see Giordano	313 (1994)	266
Bao, D.S., see Xu	313 (1994)	227
Bao, S., see Xu	313 (1994)	227
Barbieri, A., see Batteas	313 (1994)	341
Bardi, U., see Galeotti	313 (1994)	349
Baski, A.A. and H. Fuchs, Epitaxial growth of silver on mica as studied by AFM and STM	313 (1994)	275
Batteas, J.D., A. Barbieri, E.K. Starkey, M.A. Van Hove and G.A. Somorjai, A tensor LEED analysis of the Rh(110)-p2mg(2 × 1)-2CO structure	313 (1994)	341
Bibérian, J.P., see Giordano	313 (1994)	266
Blinov, N.V., see Kulginov	313 (1994)	120
Böhmig, S.D., M. Schmid and H. Störi, Enhancement of STM images and estimation of atomic positions based on maximum entropy deconvolution	313 (1994)	6
Bonart, D., A.P. Mayer and U. Schröder, Lattice theory of crystal edges and bars	313 (1994)	427
Bönicke, I., W. Kirstein, S. Spinzig and F. Thieme, CO adsorption studies on a stepped Cu(111) surface	313 (1994)	231
Böttcher, A., see Hermann	313 (1994)	L806
Brenten, H., see Müller	313 (1994)	188
Büchel, M., see Ramseyer	313 (1994)	251
Bush, T.L., D.O. Hayward and T.S. Jones, The sodium promoted nitridation of Si(100)-2 × 1 using N_2 molecular beams	313 (1994)	179
Campbell, C.T., see Ludviksson	313 (1994)	64
Chambliss, D.D., see Johnson	313 (1994)	L811
Chambliss, D.D. and K.E. Johnson, Using STM to understand diffraction oscillations for Fe growth on Cu(100)	313 (1994)	215
Chiang, S., see Johnson	313 (1994)	L811
Cohen, J.M. and A.F. Voter, Convergence of surface diffusion parameters with model crystal size	313 (1994)	439
Comsa, G., see Ramseyer	313 (1994)	251
Dagonnier, R., see Sente	313 (1994)	107
Daimon, H., see Hanada	313 (1994)	143
Dal Pino, Jr., A., see Piquini	313 (1994)	41

Elsevier Science B.V.

Das, J., see Limburg 313 (1994) 355
De Padova, P., M. Fanfoni, R. Larciprete, M. Mangiantini, S. Priori and P. Perfetti, A synchrotron radiation photoemission study of the oxidation of tin 313 (1994) 379
Dongjin Byun, see Hong Zeng 313 (1994) 239
Dowben, P.A., see Hong Zeng 313 (1994) 239
Dufour, P., see Sente 313 (1994) 107
Dumont, M., see Sente 313 (1994) 107

Eades, J.A., see Ma 313 (1994) 317
Enta, Y., T. Horie, N. Miyamoto, Y. Takakuwa, H. Sakamoto and H. Kato, Origin of surface-state photoemission intensity oscillation during Si epitaxial growth on a Si(100) surface 313 (1994) L797
Erley, W., see Grossmann 313 (1994) 209
Ertl, G., see Hermann 313 (1994) L806

Fan, C.Y., see Xu 313 (1994) 227
Fanfoni, M., see De Padova 313 (1994) 379
Fazzio, A., see Piquini 313 (1994) 41
Feibelman, P.J., Diffusion barrier for a Ag adatom on Pt(111) 313 (1994) L801
Fick, D., see Hermann 313 (1994) L806
Freihube, K., see Hermann 313 (1994) L806
Friend, C.M., see Yang 313 (1994) 295
Fuchs, H., see Baski 313 (1994) 275

Gador, G., see Müller 313 (1994) 188
Galeotti, M., A. Atrei, U. Bardi, G. Rovida and M. Torrini, Surface alloying at the Sn–Pt(111) interface: a study by X-ray photoelectron diffraction 313 (1994) 349
Gao, S., Heating and breaking of ad-molecule bond by inelastic tunneling 313 (1994) 448
Gao, X. and M.J. Weaver, Charge-induced (1 × 3) reconstruction of Au(110): mechanistic insights from potentiodynamic scanning tunneling microscopy in alkali iodide electrolytes 313 (1994) L775
Gauch, M., see Müller 313 (1994) 335
Giordano, H., J.P. Bibérian and B. Aufray, Link between superstructures and kinetics in the Cu–Sb(100) system 313 (1994) 266
Girardet, C., see Ramseyer 313 (1994) 251
Goerge, J., see Ramseyer 313 (1994) 251
Goodwin, J.P., see Stirner 313 (1994) 417
Greber, T., see Hermann 313 (1994) L806
Griffiths, K., see Ludviksson 313 (1994) 64
Grobecker, R., see Hermann 313 (1994) L806
Grossmann, A., W. Erley and H. Ibach, Adsorbate-induced surface stress: CO on Ni(100) and Ni(111) 313 (1994) 209

Hackett, P.A., see Williams 313 (1994) L790
Hagston, W.E., see Stirner 313 (1994) 417
Hamamatsu, H., see Yokoyama 313 (1994) 197
Hanada, T., S. Ino and H. Daimon, Study of the Si(111)7 × 7 surface by RHEED rocking curve analysis 313 (1994) 143
Harrison, P., see Stirner 313 (1994) 417
Hayward, D.O., see Bush 313 (1994) 179
Hermann, K., K. Freihube, T. Greber, A. Böttcher, R. Grobecker, D. Fick and G. Ertl, Dynamics of the interaction of O_2 with Li surfaces 313 (1994) L806

Hoekstra, R., see Limburg 313 (1994) 355
Hoffschulz, H., see Schäfer 313 (1994) 83
Hong Zeng, Dongjin Byun, Jiandi Zhang, G. Vidali, M. Onellion and P.A. Dowben, Adsorption and bonding of molecular icosahedra on Cu(100) 313 (1994) 239
Horie, T., see Enta 313 (1994) L797

Ibach, H., see Grossmann 313 (1994) 209
Ino, S., see Hanada 313 (1994) 143
Iwasawa, Y., see Onishi 313 (1994) L783

Jacobi, K., see Shi 313 (1994) 289
Jiandi Zhang, see Hong Zeng 313 (1994) 239
Johnson, K.E., D.D. Chambliss, R.J. Wilson and S. Chiang, A structural model and mechanism for Fe epitaxy on Cu(100) 313 (1994) L811
Johnson, K.E., see Chambliss 313 (1994) 215
Jones, T.S., see Bush 313 (1994) 179
Jug, K., see Poredda 313 (1994) 168

Kakitani, K., see Yagi 313 (1994) 1
Kato, H., see Enta 313 (1994) L797
Kempter, V., see Müller 313 (1994) 188
Kim, Y. and D.R. Olander, Reaction of β-SiC with thermal atomic hydrogen by modulated molecular beam mass spectrometry 313 (1994) 399
Kirstein, W., see Bönicke 313 (1994) 231
Kitajima, Y., see Yokoyama 313 (1994) 197
Kulginov, D.V. and N.V. Blinov, Semiclassical theory of atom–crystal scattering diffraction and interaction with phonons 313 (1994) 120

Larciprete, R., see De Padova 313 (1994) 379
Lauterbach, J., K. Asakura and H.H. Rotermund, Subsurface oxygen on Pt(100): kinetics of the transition from chemisorbed to subsurface state and its reaction with CO, H_2 and O_2 313 (1994) 52
Li, B., see Zhang 313 (1994) 308
Limburg, J., J. Das, S. Schippers, R. Hoekstra and R. Morgenstern, The interaction of hydrogenic ions with metal and semiconductor surfaces 313 (1994) 355
Lordi, S., see Ma 313 (1994) 317
Ludviksson, A., R. Zhang, C.T. Campbell and K. Griffiths, The chemisorption and reactions of formic acid on Cu films on ZnO(000$\bar{1}$)-O 313 (1994) 64

Ma, Y., S. Lordi and J.A. Eades, Dynamical analysis of a RHEED pattern from the Si(111)-7 × 7 surface 313 (1994) 317
Mangiantini, M., see De Padova 313 (1994) 379
Mason, B.F., see Williams 313 (1994) L790
Matolín, V., see Stará 313 (1994) 99
Mayer, A.P., see Bonart 313 (1994) 427
McComb, D.W., see Williams 313 (1994) L790
Miyamoto, N., see Enta 313 (1994) L797
Moffatt, D.J., see Williams 313 (1994) L790
Morgenstern, R., see Limburg 313 (1994) 355
Müller, H., G. Gador, H. Brenten and V. Kempter, Electron emission in low-energy grazing collisions of O^+ ground (^4S) and excited state (^2D; ^2P) ions with alkalated W(110) surfaces 313 (1994) 188

Müller, P., M. Gauch and G. Quentel, Study of the $(7 \times 7) \leftrightarrow (1 \times 1)$ Si(111) surface transition by spectroscopic ellipsometry near the pseudo-Brewster angle 313 (1994) 335

Norton, P.R., see Zhang 313 (1994) 308

Ohta, T., see Yokoyama 313 (1994) 197
Olander, D.R., see Kim 313 (1994) 399
Onellion, M., see Hong Zeng 313 (1994) 239
Onishi, H. and Y. Iwasawa, Reconstruction of TiO_2(110) surface: STM study with atomic-scale resolution 313 (1994) L783

Paredes Olivera, P., E.M. Patrito and H. Sellers, Hydrogen peroxide synthesis over metallic catalysts 313 (1994) 25
Patrito, E.M., see Paredes Olivera 313 (1994) 25
Perfetti, P., see De Padova 313 (1994) 379
Piquini, P., A. Fazzio and A. Dal Pino, Jr., Studies of the local reactivity of surfaces using chemical based principles 313 (1994) 41
Poredda, A. and K. Jug, Calculation of adsorption energies at silicon surfaces 313 (1994) 168
Priori, S., see De Padova 313 (1994) 379

Quentel, G., see Müller 313 (1994) 335

Ramseyer, C., C. Girardet, P. Zeppenfeld, J. Goerge, M. Büchel and G. Comsa, Xe monolayer adsorption on Cu(110): experiments and interaction calculations 313 (1994) 251
Rao, C.N.R., see Aiyer 313 (1994) 392
Reinhardt, P., see Schäfer 313 (1994) 83
Rotermund, H.H., see Lauterbach 313 (1994) 52
Rovida, G., see Galeotti 313 (1994) 349

Sakamoto, H., see Enta 313 (1994) L797
Schäfer, J., P. Reinhardt, H. Hoffschulz and K. Wandelt, Indirect determination of miscibility properties of monolayer alloy films by simulation of thermal desorption spectra: Ag–Cu/Ru(0001) 313 (1994) 83
Schippers, S., see Limburg 313 (1994) 355
Schmid, M., see Böhmig 313 (1994) 6
Schröder, U., see Bonart 313 (1994) 427
Sellers, H., see Paredes Olivera 313 (1994) 25
Sente, B., M. Dumont, P. Dufour and R. Dagonnier, About the degree of dissociation of admolecules on surfaces 313 (1994) 107
Shi, H. and K. Jacobi, Hydrogen vibrations on the Ru(001) surface revisited 313 (1994) 289
Somorjai, G.A., see Batteas 313 (1994) 341
Spinzig, S., see Bönicke 313 (1994) 231
Stará, I. and V. Matolín, The influence of particle size on CO adsorption on Pd/alumina model catalysts 313 (1994) 99
Starkey, E.K., see Batteas 313 (1994) 341
Stirner, T., P. Harrison, W.E. Hagston and J.P. Goodwin, Effect of interface disorder on the optical properties of CdTe–$Cd_{1-x}Mn_xTe$ microstructures 313 (1994) 417
Störi, H., see Böhmig 313 (1994) 6
Subbanna, G.N., see Aiyer 313 (1994) 392

Takakuwa, Y., see Enta 313 (1994) L797
Takata, Y., see Yokoyama 313 (1994) 197

Thieme, F., see Bönicke 313 (1994) 231
Torrini, M., see Galeotti 313 (1994) 349
Tsukada, M., see Uchiyama 313 (1994) 17

Uchiyama, T. and M. Tsukada, Theory of scanning tunneling microscopy and spectroscopy of the hydrogen-terminated Si(001) surface 313 (1994) 17
Uebing, C., Equilibrium surface segregation of interstitials on bcc (001) surfaces 313 (1994) 365

Van Hove, M.A., see Batteas 313 (1994) 341
Vidali, G., see Hong Zeng 313 (1994) 239
Vijayakrishnan, V., see Aiyer 313 (1994) 392
Voter, A.F., see Cohen 313 (1994) 439

Wandelt, K., see Schäfer 313 (1994) 83
Weaver, M.J., see Gao 313 (1994) L775
Whitten, J.L., see Yang 313 (1994) 295
Williams, B.R., B.F. Mason, D.W. McComb, D.J. Moffatt and P.A. Hackett, A scanning tunneling microscopy investigation of the reaction of hydrogen atoms with Ag/Si(111)-($\sqrt{3} \times \sqrt{3}$) 313 (1994) L790
Wilson, R.J., see Johnson 313 (1994) L811

Xu, R., S. Bao, C.Y. Fan, D.S. Bao and Y.B. Xu, Structure investigation of the Fe on Cu(110) surface 313 (1994) 227
Xu, Y.B., see Xu 313 (1994) 227

Yagi, S., see Yokoyama 313 (1994) 197
Yagi, Y., K. Kakitani and A. Yoshimori, Theory of short range order of Li on Cu(100) 313 (1994) 1
Yamamoto, Y., Study of a Si(110) surface by using reflection high-energy electron diffraction–total reflection angle X-ray spectroscopy and high temperature scanning tunneling microscopy 313 (1994) 155
Yang, H., J.L. Whitten and C.M. Friend, Adsorption of CH_3O on Ni(111) 313 (1994) 295
Yokoyama, T., H. Hamamatsu, Y. Kitajima, Y. Takata, S. Yagi and T. Ohta, Vibrational and anharmonic properties of the surface S–Ni bonds in c(2 × 2)S/Ni(100) and c(2 × 2)S/Ni(110) from the SEXAFS point of view 313 (1994) 197
Yoshimori, A., see Yagi 313 (1994) 1

Zeppenfeld, P., see Ramseyer 313 (1994) 251
Zhang, C.-S., B. Li and P.R. Norton, The reconstructed clean Zr(10$\bar{1}$0) surface and its interaction with oxygen 313 (1994) 308
Zhang, R., see Ludviksson 313 (1994) 64

ELSEVIER

Surface Science 313(1994) 464–473

surface science

Subject index

Adsorption isotherms, see also Chemisorption theory
C. Ramseyer, C. Girardet, P. Zeppenfeld, J. Goerge, M. Büchel and G. Comsa, Xe monolayer adsorption on Cu(110): experiments and interaction calculations 313 (1994) 251

Alkali metals
K. Hermann, K. Freihube, T. Greber, A. Böttcher, R. Grobecker, D. Fick and G. Ertl, Dynamics of the interaction of O_2 with Li surfaces 313 (1994) L806
Y. Yagi, K. Kakitani and A. Yoshimori, Theory of short range order of Li on Cu(100) 313 (1994) 1
T.L. Bush, D.O. Hayward and T.S. Jones, The sodium promoted nitridation of Si(100)-2 × 1 using N_2 molecular beams 313 (1994) 179

Alloys
S.D. Böhmig, M. Schmid and H. Störi, Enhancement of STM images and estimation of atomic positions based on maximum entropy deconvolution 313 (1994) 6

Antimony
H. Giordano, J.P. Bibérian and B. Aufray, Link between superstructures and kinetics in the Cu–Sb(100) system 313 (1994) 266

Atomic and molecular beam studies
D.V. Kulginov and N.V. Blinov, Semiclassical theory of atom–crystal scattering diffraction and interaction with phonons 313 (1994) 120
T.L. Bush, D.O. Hayward and T.S. Jones, The sodium promoted nitridation of Si(100)-2 × 1 using N_2 molecular beams 313 (1994) 179
C. Ramseyer, C. Girardet, P. Zeppenfeld, J. Goerge, M. Büchel and G. Comsa, Xe monolayer adsorption on Cu(110): experiments and interaction calculations 313 (1994) 251
Y. Kim and D.R. Olander, Reaction of β-SiC with thermal atomic hydrogen by modulated molecular beam mass spectrometry 313 (1994) 399

Atomic force microscopy
A.A. Baski and H. Fuchs, Epitaxial growth of silver on mica as studied by AFM and STM 313 (1994) 275

Auger electron spectroscopy
H. Giordano, J.P. Bibérian and B. Aufray, Link between superstructures and kinetics in the Cu–Sb(100) system 313 (1994) 266

Elsevier Science B.V.

C.-S. Zhang, B. Li and P.R. Norton, The reconstructed clean Zr(10$\bar{1}$0) surface and its interaction with oxygen 313 (1994) 308
J. Limburg, J. Das, S. Schippers, R. Hoekstra and R. Morgenstern, The interaction of hydrogenic ions with metal and semiconductor surfaces 313 (1994) 355

Band structure
T. Uchiyama and M. Tsukada, Theory of scanning tunneling microscopy and spectroscopy of the hydrogen-terminated Si(001) surface 313 (1994) 17

Cadmium telluride
T. Stirner, P. Harrison, W.E. Hagston and J.P. Goodwin, Effect of interface disorder on the optical properties of CdTe–$Cd_{1-x}Mn_xTe$ microstructures 313 (1994) 417

Carbon
H.N. Aiyer, V. Vijayakrishnan, G.N. Subbanna and C.N.R. Rao, Investigations of Pd clusters by the combined use of HREM, STM, high-energy spectroscopies and tunneling conductance measurements 313 (1994) 392

Carbon monoxide
J. Lauterbach, K. Asakura and H.H. Rotermund, Subsurface oxygen on Pt(100): kinetics of the transition from chemisorbed to subsurface state and its reaction with CO, H_2 and O_2 313 (1994) 52
I. Stará and V. Matolín, The influence of particle size on CO adsorption on Pd/alumina model catalysts 313 (1994) 99
A. Grossmann, W. Erley and H. Ibach, Adsorbate-induced surface stress: CO on Ni(100) and Ni(111) 313 (1994) 209
I. Bönicke, W. Kirstein, S. Spinzig and F. Thieme, CO adsorption studies on a stepped Cu(111) surface 313 (1994) 231
J.D. Batteas, A. Barbieri, E.K. Starkey, M.A. Van Hove and G.A. Somorjai, A tensor LEED analysis of the Rh(110)-p2mg(2×1)-2CO structure 313 (1994) 341
S. Gao, Heating and breaking of ad-molecule bond by inelastic tunneling 313 (1994) 448

Carboxylic acid
A. Ludviksson, R. Zhang, C.T. Campbell and K. Griffiths, The chemisorption and reactions of formic acid on Cu films on ZnO(000$\bar{1}$)-O 313 (1994) 64

Chemisorption theory
T. Uchiyama and M. Tsukada, Theory of scanning tunneling microscopy and spectroscopy of the hydrogen-terminated Si(001) surface 313 (1994) 17
P. Paredes Olivera, E.M. Patrito and H. Sellers, Hydrogen peroxide synthesis over metallic catalysts 313 (1994) 25
P. Piquini, A. Fazzio and A. Dal Pino, Jr., Studies of the local reactivity of surfaces using chemical based principles 313 (1994) 41
A. Poredda and K. Jug, Calculation of adsorption energies at silicon surfaces 313 (1994) 168
H. Yang, J.L. Whitten and C.M. Friend, Adsorption of CH_3O on Ni(111) 313 (1994) 295

Conductivity
H.N. Aiyer, V. Vijayakrishnan, G.N. Subbanna and C.N.R. Rao, Investigations of Pd clusters by the combined use of HREM, STM, high-energy spectroscopies and tunneling conductance measurements 313 (1994) 392

Copper
Y. Yagi, K. Kakitani and A. Yoshimori, Theory of short range order of Li on Cu(100) 313 (1994) 1
S.D. Böhmig, M. Schmid and H. Störi, Enhancement of STM images and estimation of atomic positions based on maximum entropy deconvolution 313 (1994) 6
A. Ludviksson, R. Zhang, C.T. Campbell and K. Griffiths, The chemisorption and reactions of formic acid on Cu films on ZnO(000$\bar{1}$)-O 313 (1994) 64
J. Schäfer, P. Reinhardt, H. Hoffschulz and K. Wandelt, Indirect determination of miscibility properties of monolayer alloy films by simulation of thermal desorption spectra: Ag–Cu/Ru(0001) 313 (1994) 83
K.E. Johnson, D.D. Chambliss, R.J. Wilson and S. Chiang, A structural model and mechanism for Fe epitaxy on Cu(100) 313 (1994) L811
D.D. Chambliss and K.E. Johnson, Using STM to understand diffraction oscillations for Fe growth on Cu(100) 313 (1994) 215
R. Xu, S. Bao, C.Y. Fan, D.S. Bao and Y.B. Xu, Structure investigation of the Fe on Cu(110) surface 313 (1994) 227
I. Bönicke, W. Kirstein, S. Spinzig and F. Thieme, CO adsorption studies on a stepped Cu(111) surface 313 (1994) 231
Hong Zeng, Dongjin Byun, Jiandi Zhang, G. Vidali, M. Onellion and P.A. Dowben, Adsorption and bonding of molecular icosahedra on Cu(100) 313 (1994) 239
C. Ramseyer, C. Girardet, P. Zeppenfeld, J. Goerge, M. Büchel and G. Comsa, Xe monolayer adsorption on Cu(110): experiments and interaction calculations 313 (1994) 251
H. Giordano, J.P. Bibérian and B. Aufray, Link between superstructures and kinetics in the Cu–Sb(100) system 313 (1994) 266
S. Gao, Heating and breaking of ad-molecule bond by inelastic tunneling 313 (1994) 448

Electron diffraction, see also Low energy electron diffraction
T. Hanada, S. Ino and H. Daimon, Study of the Si(111)7 × 7 surface by RHEED rocking curve analysis 313 (1994) 143
Y. Yamamoto, Study of a Si(110) surface by using reflection high-energy electron diffraction–total reflection angle X-ray spectroscopy and high temperature scanning tunneling microscopy 313 (1994) 155
D.D. Chambliss and K.E. Johnson, Using STM to understand diffraction oscillations for Fe growth on Cu(100) 313 (1994) 215
Y. Ma, S. Lordi and J.A. Eades, Dynamical analysis of a RHEED pattern from the Si(111)-7 × 7 surface 313 (1994) 317
M. Galeotti, A. Atrei, U. Bardi, G. Rovida and M. Torrini, Surface alloying at the Sn–Pt(111) interface: a study by X-ray photoelectron diffraction 313 (1994) 349

Electron emission
K. Hermann, K. Freihube, T. Greber, A. Böttcher, R. Grobecker, D. Fick and G. Ertl, Dynamics of the interaction of O_2 with Li surfaces 313 (1994) L806
H. Müller, G. Gador, H. Brenten and V. Kempter, Electron emission in low-energy grazing collisions of O^+ ground (^4S) and excited state (^2D; ^2P) ions with alkalated W(110) surfaces 313 (1994) 188

Electron energy loss spectroscopy
H. Shi and K. Jacobi, Hydrogen vibrations on the Ru(001) surface revisited 313 (1994) 289

Electron microscopy
H.N. Aiyer, V. Vijayakrishnan, G.N. Subbanna and C.N.R. Rao, Investigations of Pd clusters by the combined use of HREM, STM, high-energy spectroscopies and tunneling conductance measurements 313 (1994) 392

Ellipsometry
P. Müller, M. Gauch and G. Quentel, Study of the $(7 \times 7) \leftrightarrow (1 \times 1)$ Si(111) surface transition by spectroscopic ellipsometry near the pseudo-Brewster angle 313 (1994) 335

Epitaxy
K.E. Johnson, D.D. Chambliss, R.J. Wilson and S. Chiang, A structural model and mechanism for Fe epitaxy on Cu(100) 313 (1994) L811
D.D. Chambliss and K.E. Johnson, Using STM to understand diffraction oscillations for Fe growth on Cu(100) 313 (1994) 215

Gallium arsenide
P. Piquini, A. Fazzio and A. Dal Pino, Jr., Studies of the local reactivity of surfaces using chemical based principles 313 (1994) 41

Gold
X. Gao and M.J. Weaver, Charge-induced (1×3) reconstruction of Au(110): mechanistic insights from potentiodynamic scanning tunneling microscopy in alkali iodide electrolytes 313 (1994) L775
P. Paredes Olivera, E.M. Patrito and H. Sellers, Hydrogen peroxide synthesis over metallic catalysts 313 (1994) 25

Hydrogen
B.R. Williams, B.F. Mason, D.W. McComb, D.J. Moffatt and P.A. Hackett, A scanning tunneling microscopy investigation of the reaction of hydrogen atoms with Ag/Si(111)-$(\sqrt{3} \times \sqrt{3})$ 313 (1994) L790
T. Uchiyama and M. Tsukada, Theory of scanning tunneling microscopy and spectroscopy of the hydrogen-terminated Si(001) surface 313 (1994) 17
P. Paredes Olivera, E.M. Patrito and H. Sellers, Hydrogen peroxide synthesis over metallic catalysts 313 (1994) 25
J. Lauterbach, K. Asakura and H.H. Rotermund, Subsurface oxygen on Pt(100): kinetics of the transition from chemisorbed to subsurface state and its reaction with CO, H_2 and O_2 313 (1994) 52
H. Shi and K. Jacobi, Hydrogen vibrations on the Ru(001) surface revisited 313 (1994) 289
Y. Kim and D.R. Olander, Reaction of β-SiC with thermal atomic hydrogen by modulated molecular beam mass spectrometry 313 (1994) 399

Inorganic compounds
Hong Zeng, Dongjin Byun, Jiandi Zhang, G. Vidali, M. Onellion and P.A. Dowben, Adsorption and bonding of molecular icosahedra on Cu(100) 313 (1994) 239

Iron
K.E. Johnson, D.D. Chambliss, R.J. Wilson and S. Chiang, A structural model and mechanism for Fe epitaxy on Cu(100) 313 (1994) L811
D.D. Chambliss and K.E. Johnson, Using STM to understand diffraction oscillations for Fe growth on Cu(100) 313 (1994) 215

R. Xu, S. Bao, C.Y. Fan, D.S. Bao and Y.B. Xu, Structure investigation of the Fe on Cu(110) surface 313 (1994) 227

Low energy electron diffraction
Y. Yagi, K. Kakitani and A. Yoshimori, Theory of short range order of Li on Cu(100) 313 (1994) 1
R. Xu, S. Bao, C.Y. Fan, D.S. Bao and Y.B. Xu, Structure investigation of the Fe on Cu(110) surface 313 (1994) 227
I. Bönicke, W. Kirstein, S. Spinzig and F. Thieme, CO adsorption studies on a stepped Cu(111) surface 313 (1994) 231
H. Giordano, J.P. Bibérian and B. Aufray, Link between superstructures and kinetics in the Cu–Sb(100) system 313 (1994) 266
C.-S. Zhang, B. Li and P.R. Norton, The reconstructed clean Zr(10$\bar{1}$0) surface and its interaction with oxygen 313 (1994) 308
J.D. Batteas, A. Barbieri, E.K. Starkey, M.A. Van Hove and G.A. Somorjai, A tensor LEED analysis of the Rh(110)-p2mg(2 × 1)-2CO structure 313 (1994) 341

Methanol
H. Yang, J.L. Whitten and C.M. Friend, Adsorption of CH_3O on Ni(111) 313 (1994) 295

Mica
A.A. Baski and H. Fuchs, Epitaxial growth of silver on mica as studied by AFM and STM 313 (1994) 275

Molecular beam epitaxy
Y. Enta, T. Horie, N. Miyamoto, Y. Takakuwa, H. Sakamoto and H. Kato, Origin of surface-state photoemission intensity oscillation during Si epitaxial growth on a Si(100) surface 313 (1994) L797

Nickel
T. Yokoyama, H. Hamamatsu, Y. Kitajima, Y. Takata, S. Yagi and T. Ohta, Vibrational and anharmonic properties of the surface S–Ni bonds in c(2 × 2)S/Ni(100) and c(2 × 2)S/Ni(110) from the SEXAFS point of view 313 (1994) 197
A. Grossmann, W. Erley and H. Ibach, Adsorbate-induced surface stress: CO on Ni(100) and Ni(111) 313 (1994) 209
H. Yang, J.L. Whitten and C.M. Friend, Adsorption of CH_3O on Ni(111) 313 (1994) 295
J. Limburg, J. Das, S. Schippers, R. Hoekstra and R. Morgenstern, The interaction of hydrogenic ions with metal and semiconductor surfaces 313 (1994) 355
J.M. Cohen and A.F. Voter, Convergence of surface diffusion parameters with model crystal size 313 (1994) 439

Nitrogen
T.L. Bush, D.O. Hayward and T.S. Jones, The sodium promoted nitridation of Si(100)-2 × 1 using N_2 molecular beams 313 (1994) 179

Noble gases
C. Ramseyer, C. Girardet, P. Zeppenfeld, J. Goerge, M. Büchel and G. Comsa, Xe monolayer adsorption on Cu(110): experiments and interaction calculations 313 (1994) 251

Oxygen
K. Hermann, K. Freihube, T. Greber, A. Böttcher, R. Grobecker, D. Fick and G. Ertl, Dynamics of the interaction of O_2 with Li surfaces 313 (1994) L806
P. Paredes Olivera, E.M. Patrito and H. Sellers, Hydrogen peroxide synthesis over metallic catalysts 313 (1994) 25
J. Lauterbach, K. Asakura and H.H. Rotermund, Subsurface oxygen on Pt(100): kinetics of the transition from chemisorbed to subsurface state and its reaction with CO, H_2 and O_2 313 (1994) 52
H. Müller, G. Gador, H. Brenten and V. Kempter, Electron emission in low-energy grazing collisions of O^+ ground (^4S) and excited state (^2D; ^2P) ions with alkalated W(110) surfaces 313 (1994) 188
C.-S. Zhang, B. Li and P.R. Norton, The reconstructed clean Zr(10$\bar{1}$0) surface and its interaction with oxygen 313 (1994) 308
P. De Padova, M. Fanfoni, R. Larciprete, M. Mangiantini, S. Priori and P. Perfetti, A synchrotron radiation photoemission study of the oxidation of tin 313 (1994) 379

Palladium
P. Paredes Olivera, E.M. Patrito and H. Sellers, Hydrogen peroxide synthesis over metallic catalysts 313 (1994) 25
I. Stará and V. Matolín, The influence of particle size on CO adsorption on Pd/alumina model catalysts 313 (1994) 99
H.N. Aiyer, V. Vijayakrishnan, G.N. Subbanna and C.N.R. Rao, Investigations of Pd clusters by the combined use of HREM, STM, high-energy spectroscopies and tunneling conductance measurements 313 (1994) 392
J.M. Cohen and A.F. Voter, Convergence of surface diffusion parameters with model crystal size 313 (1994) 439

Photoelectron spectroscopy
Y. Enta, T. Horie, N. Miyamoto, Y. Takakuwa, H. Sakamoto and H. Kato, Origin of surface-state photoemission intensity oscillation during Si epitaxial growth on a Si(100) surface 313 (1994) L797
J. Lauterbach, K. Asakura and H.H. Rotermund, Subsurface oxygen on Pt(100): kinetics of the transition from chemisorbed to subsurface state and its reaction with CO, H_2 and O_2 313 (1994) 52
A. Ludviksson, R. Zhang, C.T. Campbell and K. Griffiths, The chemisorption and reactions of formic acid on Cu films on ZnO(000$\bar{1}$)-O 313 (1994) 64
R. Xu, S. Bao, C.Y. Fan, D.S. Bao and Y.B. Xu, Structure investigation of the Fe on Cu(110) surface 313 (1994) 227
Hong Zeng, Dongjin Byun, Jiandi Zhang, G. Vidali, M. Onellion and P.A. Dowben, Adsorption and bonding of molecular icosahedra on Cu(100) 313 (1994) 239
M. Galeotti, A. Atrei, U. Bardi, G. Rovida and M. Torrini, Surface alloying at the Sn–Pt(111) interface: a study by X-ray photoelectron diffraction 313 (1994) 349
P. De Padova, M. Fanfoni, R. Larciprete, M. Mangiantini, S. Priori and P. Perfetti, A synchrotron radiation photoemission study of the oxidation of tin 313 (1994) 379
H.N. Aiyer, V. Vijayakrishnan, G.N. Subbanna and C.N.R. Rao, Investigations of Pd clusters by the combined use of HREM, STM, high-energy spectroscopies and tunneling conductance measurements 313 (1994) 392

Platinum
P.J. Feibelman, Diffusion barrier for a Ag adatom on Pt(111) 313 (1994) L801
P. Paredes Olivera, E.M. Patrito and H. Sellers, Hydrogen peroxide synthesis over metallic catalysts 313 (1994) 25

J. Lauterbach, K. Asakura and H.H. Rotermund, Subsurface oxygen on Pt(100): kinetics of the transition from chemisorbed to subsurface state and its reaction with CO, H_2 and O_2 313 (1994) 52
M. Galeotti, A. Atrei, U. Bardi, G. Rovida and M. Torrini, Surface alloying at the Sn–Pt(111) interface: a study by X-ray photoelectron diffraction 313 (1994) 349
J.M. Cohen and A.F. Voter, Convergence of surface diffusion parameters with model crystal size 313 (1994) 439

Rhodium
J.D. Batteas, A. Barbieri, E.K. Starkey, M.A. Van Hove and G.A. Somorjai, A tensor LEED analysis of the Rh(110)-p2mg(2×1)-2CO structure 313 (1994) 341

Ruthenium
J. Schäfer, P. Reinhardt, H. Hoffschulz and K. Wandelt, Indirect determination of miscibility properties of monolayer alloy films by simulation of thermal desorption spectra: Ag–Cu/Ru(0001) 313 (1994) 83
H. Shi and K. Jacobi, Hydrogen vibrations on the Ru(001) surface revisited 313 (1994) 289

Silicon
B.R. Williams, B.F. Mason, D.W. McComb, D.J. Moffatt and P.A. Hackett, A scanning tunneling microscopy investigation of the reaction of hydrogen atoms with Ag/Si(111)-($\sqrt{3} \times \sqrt{3}$) 313 (1994) L790
Y. Enta, T. Horie, N. Miyamoto, Y. Takakuwa, H. Sakamoto and H. Kato, Origin of surface-state photoemission intensity oscillation during Si epitaxial growth on a Si(100) surface 313 (1994) L797
T. Uchiyama and M. Tsukada, Theory of scanning tunneling microscopy and spectroscopy of the hydrogen-terminated Si(001) surface 313 (1994) 17
T. Hanada, S. Ino and H. Daimon, Study of the Si(111)7×7 surface by RHEED rocking curve analysis 313 (1994) 143
Y. Yamamoto, Study of a Si(110) surface by using reflection high-energy electron diffraction–total reflection angle X-ray spectroscopy and high temperature scanning tunneling microscopy 313 (1994) 155
A. Poredda and K. Jug, Calculation of adsorption energies at silicon surfaces 313 (1994) 168
T.L. Bush, D.O. Hayward and T.S. Jones, The sodium promoted nitridation of Si(100)-2×1 using N_2 molecular beams 313 (1994) 179
Y. Ma, S. Lordi and J.A. Eades, Dynamical analysis of a RHEED pattern from the Si(111)-7×7 surface 313 (1994) 317
P. Müller, M. Gauch and G. Quentel, Study of the $(7 \times 7) \leftrightarrow (1 \times 1)$ Si(111) surface transition by spectroscopic ellipsometry near the pseudo-Brewster angle 313 (1994) 335
J. Limburg, J. Das, S. Schippers, R. Hoekstra and R. Morgenstern, The interaction of hydrogenic ions with metal and semiconductor surfaces 313 (1994) 355

Silicon carbide
Y. Kim and D.R. Olander, Reaction of β-SiC with thermal atomic hydrogen by modulated molecular beam mass spectrometry 313 (1994) 399

Silver
B.R. Williams, B.F. Mason, D.W. McComb, D.J. Moffatt and P.A. Hackett, A scanning tunneling microscopy investigation of the reaction of hydrogen atoms with Ag/Si(111)-($\sqrt{3} \times \sqrt{3}$) 313 (1994) L790
P.J. Feibelman, Diffusion barrier for a Ag adatom on Pt(111) 313 (1994) L801

P. Paredes Olivera, E.M. Patrito and H. Sellers, Hydrogen peroxide synthesis over metallic catalysts 313 (1994) 25
J. Schäfer, P. Reinhardt, H. Hoffschulz and K. Wandelt, Indirect determination of miscibility properties of monolayer alloy films by simulation of thermal desorption spectra: Ag–Cu/Ru(0001) 313 (1994) 83
A.A. Baski and H. Fuchs, Epitaxial growth of silver on mica as studied by AFM and STM 313 (1994) 275

Solid–electrolyte interface
X. Gao and M.J. Weaver, Charge-induced (1 × 3) reconstruction of Au(110): mechanistic insights from potentiodynamic scanning tunneling microscopy in alkali iodide electrolytes 313 (1994) L775

Sulphur
T. Yokoyama, H. Hamamatsu, Y. Kitajima, Y. Takata, S. Yagi and T. Ohta, Vibrational and anharmonic properties of the surface S–Ni bonds in c(2 × 2)S/Ni(100) and c(2 × 2)S/Ni(110) from the SEXAFS point of view 313 (1994) 197

Superlattices
T. Stirner, P. Harrison, W.E. Hagston and J.P. Goodwin, Effect of interface disorder on the optical properties of CdTe–$Cd_{1-x}Mn_xTe$ microstructures 313 (1994) 417

Surface diffusion
P.J. Feibelman, Diffusion barrier for a Ag adatom on Pt(111) 313 (1994) L801
J.M. Cohen and A.F. Voter, Convergence of surface diffusion parameters with model crystal size 313 (1994) 439

Surface phonons and adsorbate vibrations
T. Yokoyama, H. Hamamatsu, Y. Kitajima, Y. Takata, S. Yagi and T. Ohta, Vibrational and anharmonic properties of the surface S–Ni bonds in c(2 × 2)S/Ni(100) and c(2 × 2)S/Ni(110) from the SEXAFS point of view 313 (1994) 197
D. Bonart, A.P. Mayer and U. Schröder, Lattice theory of crystal edges and bars 313 (1994) 427

Surface segregation
H. Giordano, J.P. Bibérian and B. Aufray, Link between superstructures and kinetics in the Cu–Sb(100) system 313 (1994) 266
C. Uebing, Equilibrium surface segregation of interstitials on bcc (001) surfaces 313 (1994) 365

Surface stress
A. Grossmann, W. Erley and H. Ibach, Adsorbate-induced surface stress: CO on Ni(100) and Ni(111) 313 (1994) 209

Surface structure, see also Low energy electron diffraction
X. Gao and M.J. Weaver, Charge-induced (1 × 3) reconstruction of Au(110): mechanistic insights from potentiodynamic scanning tunneling microscopy in alkali iodide electrolytes 313 (1994) L775
H. Onishi and Y. Iwasawa, Reconstruction of TiO_2(110) surface: STM study with atomic-scale resolution 313 (1994) L783
T. Hanada, S. Ino and H. Daimon, Study of the Si(111)7 × 7 surface by RHEED rocking curve analysis 313 (1994) 143

Y. Yamamoto, Study of a Si(110) surface by using reflection high-energy electron diffraction–total reflection angle X-ray spectroscopy and high temperature scanning tunneling microscopy 313 (1994) 155
A. Poredda and K. Jug, Calculation of adsorption energies at silicon surfaces 313 (1994) 168
Y. Ma, S. Lordi and J.A. Eades, Dynamical analysis of a RHEED pattern from the Si(111)-7 × 7 surface 313 (1994) 317
J.D. Batteas, A. Barbieri, E.K. Starkey, M.A. Van Hove and G.A. Somorjai, A tensor LEED analysis of the Rh(110)-p2mg(2 × 1)-2CO structure 313 (1994) 341

Surface thermodynamics

J. Schäfer, P. Reinhardt, H. Hoffschulz and K. Wandelt, Indirect determination of miscibility properties of monolayer alloy films by simulation of thermal desorption spectra: Ag–Cu/Ru(0001) 313 (1994) 83
C. Ramseyer, C. Girardet, P. Zeppenfeld, J. Goerge, M. Büchel and G. Comsa, Xe monolayer adsorption on Cu(110): experiments and interaction calculations 313 (1994) 251

Thermal desorption

A. Ludviksson, R. Zhang, C.T. Campbell and K. Griffiths, The chemisorption and reactions of formic acid on Cu films on ZnO(000$\bar{1}$)-O 313 (1994) 64
J. Schäfer, P. Reinhardt, H. Hoffschulz and K. Wandelt, Indirect determination of miscibility properties of monolayer alloy films by simulation of thermal desorption spectra: Ag–Cu/Ru(0001) 313 (1994) 83
I. Stará and V. Matolín, The influence of particle size on CO adsorption on Pd/alumina model catalysts 313 (1994) 99
B. Sente, M. Dumont, P. Dufour and R. Dagonnier, About the degree of dissociation of admolecules on surfaces 313 (1994) 107
I. Bönicke, W. Kirstein, S. Spinzig and F. Thieme, CO adsorption studies on a stepped Cu(111) surface 313 (1994) 231
H. Shi and K. Jacobi, Hydrogen vibrations on the Ru(001) surface revisited 313 (1994) 289

Tin

M. Galeotti, A. Atrei, U. Bardi, G. Rovida and M. Torrini, Surface alloying at the Sn–Pt(111) interface: a study by X-ray photoelectron diffraction 313 (1994) 349
P. De Padova, M. Fanfoni, R. Larciprete, M. Mangiantini, S. Priori and P. Perfetti, A synchrotron radiation photoemission study of the oxidation of tin 313 (1994) 379

Titanium oxide

H. Onishi and Y. Iwasawa, Reconstruction of TiO_2(110) surface: STM study with atomic-scale resolution 313 (1994) L783

Tungsten

H. Müller, G. Gador, H. Brenten and V. Kempter, Electron emission in low-energy grazing collisions of O^+ ground (^4S) and excited state (^2D; ^2P) ions with alkalated W(110) surfaces 313 (1994) 188
J. Limburg, J. Das, S. Schippers, R. Hoekstra and R. Morgenstern, The interaction of hydrogenic ions with metal and semiconductor surfaces 313 (1994) 355

Tunneling

X. Gao and M.J. Weaver, Charge-induced (1 × 3) reconstruction of Au(110): mechanistic insights from potentiodynamic scanning tunneling microscopy in alkali iodide electrolytes 313 (1994) L775

H. Onishi and Y. Iwasawa, Reconstruction of TiO_2(110) surface: STM study with atomic-scale resolution 313 (1994) L783
B.R. Williams, B.F. Mason, D.W. McComb, D.J. Moffatt and P.A. Hackett, A scanning tunneling microscopy investigation of the reaction of hydrogen atoms with Ag/Si(111)-($\sqrt{3} \times \sqrt{3}$) 313 (1994) L790
S.D. Böhmig, M. Schmid and H. Störi, Enhancement of STM images and estimation of atomic positions based on maximum entropy deconvolution 313 (1994) 6
T. Uchiyama and M. Tsukada, Theory of scanning tunneling microscopy and spectroscopy of the hydrogen-terminated Si(001) surface 313 (1994) 17
K.E. Johnson, D.D. Chambliss, R.J. Wilson and S. Chiang, A structural model and mechanism for Fe epitaxy on Cu(100) 313 (1994) L811
D.D. Chambliss and K.E. Johnson, Using STM to understand diffraction oscillations for Fe growth on Cu(100) 313 (1994) 215
A.A. Baski and H. Fuchs, Epitaxial growth of silver on mica as studied by AFM and STM 313 (1994) 275
H.N. Aiyer, V. Vijayakrishnan, G.N. Subbanna and C.N.R. Rao, Investigations of Pd clusters by the combined use of HREM, STM, high-energy spectroscopies and tunneling conductance measurements 313 (1994) 392
S. Gao, Heating and breaking of ad-molecule bond by inelastic tunneling 313 (1994) 448

Work function
K. Hermann, K. Freihube, T. Greber, A. Böttcher, R. Grobecker, D. Fick and G. Ertl, Dynamics of the interaction of O_2 with Li surfaces 313 (1994) L806
I. Bönicke, W. Kirstein, S. Spinzig and F. Thieme, CO adsorption studies on a stepped Cu(111) surface 313 (1994) 231
Hong Zeng, Dongjin Byun, Jiandi Zhang, G. Vidali, M. Onellion and P.A. Dowben, Adsorption and bonding of molecular icosahedra on Cu(100) 313 (1994) 239
C.-S. Zhang, B. Li and P.R. Norton, The reconstructed clean Zr(10$\bar{1}$0) surface and its interaction with oxygen 313 (1994) 308

X-ray absorption
T. Yokoyama, H. Hamamatsu, Y. Kitajima, Y. Takata, S. Yagi and T. Ohta, Vibrational and anharmonic properties of the surface S–Ni bonds in c(2 × 2)S/Ni(100) and c(2 × 2)S/Ni(110) from the SEXAFS point of view 313 (1994) 197

X-ray scattering
Y. Yamamoto, Study of a Si(110) surface by using reflection high-energy electron diffraction–total reflection angle X-ray spectroscopy and high temperature scanning tunneling microscopy 313 (1994) 155

Zinc oxide
A. Ludviksson, R. Zhang, C.T. Campbell and K. Griffiths, The chemisorption and reactions of formic acid on Cu films on ZnO(000$\bar{1}$)-O 313 (1994) 64

Zirconium
C.-S. Zhang, B. Li and P.R. Norton, The reconstructed clean Zr(10$\bar{1}$0) surface and its interaction with oxygen 313 (1994) 308